

# United States Patent and Trademark Office

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/467,611	12/20/1999	GEORGE J. MIAO	INTL-0324-US	2610
7590 10/03/2003			EXAM	MINER
TIMOTHY N TROP TROP PRUNER HU & MILES 8554 KATY FREEWAY STE 100 HOUSTON, TX 77024			NGUYEN, DUNG X	
			ART UNIT	PAPER NUMBER
			2631	Ģ
			DATE MAILED: 10/03/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary    System   Syste							
Examiner Dung X Nguyen 2531  - The MAILING DATE of this communication appears on the cover sheet with the correspondence address − Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Examinor of time may be available under the provisions of 3 C/R 1 135(b). In ne event, however, may a reply be timely filled  - If the period to reply is specified above, he maximum statutory pretries will apply and will expire SX (8) MXN/THS from the realing size of his communication.  - If the period to reply is specified above, he maximum statutory pretries will apply and will expire SX (8) MXN/THS from the realing size of his communication.  - Any may freed by the Office late then three mortals are the mailing date of the communication, even if timely filled, may reduce a my canned patent turn adjustment. See 37 C/R 1 704(b).  - Status  1   Responsive to communication(s) filled on 15 July 2002.  2   This action is FINAL.  2   20   This action is FINAL.  2   20   This action is format matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4   Claim(s) 1 - 18 and 20 - 30 is/are pending in the application.  4   Claim(s) 1 - 18 and 20 - 30 is/are pending in the application.  4   Claim(s) 1 - 18 and 20 - 30 is/are withdrawn from consideration.  5   Claim(s) 3 - 5, 7 - 10, 12 - 15, 17, 21, and 23 - 25 is/are objected to.  8   Claim(s) 1 - 2.4, 11, 16, 18, 19 and 22 is/are rejected.  7   Claim(s) 3 - 5, 7 - 10, 12 - 15, 17, 21, and 23 - 25 is/are objected to by the Examiner.  Application Papers  9   The specification is objected to by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12   The order of claims are subject to restriction and/or election requirement.  Application proposed drawing correction filled on		Application No.	Applicant(s)				
Dung X Nguyen    Dung X Nguyen   2631		09/467,611	MIAO ET AL.				
The MALING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MALING DATE OF THIS COMMUNICATION.  If the period for reply appelled income the provisions of 3 CPR 1.13(a), in no event, however, may a reply be timely filed  If the period for reply appelled more the provisions of 3 CPR 1.13(a), in no event, however, may a reply be timely filed  If the period for reply appelled show is last what they (30) days, a reply within the statutory minimum of thinty (30) days will be considered timely.  If the period for reply appelled to the time the manifes address period vall appear and a explaint MONTHS from the manifes date of his communication.  If the period for reply appelled the minimum and the replacement of the communication, and the replacement of the period of the communication, and the replacement of the r	Office Action Summary	Examiner	Art Unit				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALLING DATE OF THIS COMMUNICATION.  Laterination of time may be available under the provisions of 37 CFR 1.136(s), in no event, however, may a reply be timely filled.  Lift Depard for reply sepecified above, the maximum elastatory period will apply and wall expire SIX (5) MONTES from the nealing cate of this communication or reply sepecified above. The maximum elastatory period will apply and wall expire SIX (5) MONTES from the nealing cate of this communication. If the period for reply is specified above, the maximum elastatory period will apply and wall expire SIX (5) MONTES from the nealing cate of this communication. Any reply received by the Official test than these meaning above the score of the communication, even if timely filed, may reduce any search patient term sequenter. See 37 CFR 1.704(s).  Status  1)  Responsive to communication(s) filled on 15 July 2003.  2a)  This action is FINAL. 2b)  This action is non-final.  3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merrits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)  Claim(s) 1-18 and 20 - 30 is/are pending in the application.  4)  Claim(s) 1-18 and 20 - 30 is/are pending in the application.  4)  Claim(s) 1-2.4,6,11,16,18,19 and 22 is/are rejected.  7)  Claim(s) 2.5,7 - 10, 12 - 15, 17, 21, and 23 - 25 is/are objected to.  8)  Claim(s) 3.5,7 - 10, 12 - 15, 17, 21, and 23 - 25 is/are objected to.  8)  Claim(s) 3.6,7 - 10, 12 - 15, 17, 21, and 23 - 25 is/are objected to by the Examiner.  Application Papers  9)  The drawing(s) filed on  is/are: a) capted and capted a							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Entertained in the many be arrible with the provisions of 3° CFR 1.35(6). In no event, however, may a righty be timely filed Entertained in the period for regly specified above is less than thirty (30) days, a reply whitin the statulory minimum of thirty (30) days will be considered timely.  If the period for regly is specified above, the maximum statutory period will apply and will logic 5° (80) MONTH'S from the malling date of this communication.  Fallower than 30 period to regly specified above, the maximum statutory period will apply and will logic 5° (80) MONTH'S from the malling date of this communication.  Final provision of the provision of the provision of the communication, even if this yield, may residue day?  Status  1) Responsive to communication(s) filed on 15 July 2003.  2a) This action is FINAL.  2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under £x parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 118 and 20-30 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) 26-30 is/are allowed.  5) Claim(s) 26-30 is/are allowed.  6) Claim(s) 1.2.4.6.11.16.18.19 and 22 is/are rejected.  7) Claim(s) 3.5.7-10.12-15.17.21, and 23-25 is/are objected to.  8) Claim(s) 3.5.7-10.12-15.17.21, and 23-25 is/are objected to by the Examiner.  Application Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  4 paproved, corrected drawings are required in reply to this Office action.  11) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional applica							
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#### Response to Arguments

1. Applicant's arguments filed on July 15, 2003 have been fully considered but are moot in view of the new ground(s) of rejection.

### Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claims 1 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Palmer et al. (US patent # 6,295,461 B1).

Regarding claim 1, Palmer et al. discloses (figure 2):

- First filter 24 for reception of wideband signal (column 6, lines 20);
- Second filter 26 for reception of narrowband signal (column 6, line 23).

Palmer et al. differs from the instant claimed invention that it does not state filter 26 for implementing a GSM mode. However, narrowband mode can be implementing for GSM mode for a designed choice. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to implement Palmer et al. to provide filter 26 for implementing a GSM mode for a designed choice.

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Regarding claim 11, Palmer et al. differs from the instant claimed invention that it does not state that switch 22 coupled to a multiplex. However, switch 22 is performing the function of a multiplex as selectively controllable depending on the nature of the input signal. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to implement Palmer et al. to provide switch 22 coupled to a multiplex for selectively controllable depending on the nature of the input signal as a designed choice.

4. Claims 1, 11, 16, 18, 19, and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wilson et al. (US patent # 5,617,060).

Regarding claim 1, Wilson et al. discloses (figure 3):

- First filter 51 for reception of wideband CDMA signal (column 7, lines 12 13);
- Second filter 53 for reception of a FM signal (column 7, line 14).

Wilson et al. differs from the instant claimed invention that it does not state that filter 53 for implementing a GSM mode. However, FM mode can be implementing for GSM mode for a designed choice. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to implement Wilson et al. to provide filter 53 for implementing a GSM mode for a designed choice.

Regarding claim 11, Wilson et al. differs from the instant claimed invention that it does not state that switch 49 coupled to a multiplex. However, switch 49 is performing the function of a multiplex as selectively controllable depending on the nature of the input signal. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to implement Wilson et al. to provide switch 49 coupled to a multiplex for selectively controllable depending on the nature of the input signal as a designed choice.

Regarding claim 16, Wilson et al. discloses (figure 3):

- First filter 51 for reception of wideband CDMA signal (column 7, lines 12 13);
- Second filter 53 for reception of a FM signal (column 7, line 14);

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Detector 49 for detecting the type of signal that has been received (column 7, lines 11 - 14);

Units 49 and 55 for adapting the first and second stages to the type of the detected signal (column 7, lines 14 - 31).

Wilson et al. differs from the instant claimed invention that it does not state that filter 53 for implementing a GSM mode. However, FM mode can be implementing for GSM mode for a designed choice. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to implement Wilson et al. to provide filter 53 for implementing a GSM mode for a designed choice.

Regarding claim 18, Wilson further discloses that using first stage to receive CDMA mode and second stage to receive FM mode.

Regarding claim 19, Wilson further discloses that using unit 49 to select filtering input signal depending on whether the input signal is for a FM mode or a CDMA mode.

Regarding claim 22, Wilson et al. differs from the instant claimed invention that it does not state the step of using the same anti-alias analog filter and analog-to-digital converter for both CDMA and FM modes. However, unit 49 is selectively performing the functions of a converter for converting the input signal to a CDMA signal or a FM signal. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to implement unit 49 of Wilson et al. to provide the step of using the same anti-alias analog filter and analog-to-digital converter for both CDMA and FM modes for a designed choice.

5. Claims 2, 4, and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Palmer et al. (US patent # 6,295,461 B1), further in view of Treadaway et al. (US patent # 6,480,477 B1).

Regarding claim 2, Palmer et al. differs from the instant claimed invention that it does not state first filter 24 is a square-root-raised-cosine filter. However, Treadaway et al. discloses of

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using a matched filter square-root-raised-cosine for minimizing inter-symbol interference. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to implement Treadaway et al. into Palmer et al. to provide filter 24 being a square-root-raised-cosine filter for minimizing inter-symbol interference.

Regarding claim 4, Palmer et al. further discloses controllers 22, 28 that for selecting first filter 24 outputting a CDMA mode (column 6, lines 28 - 33).

Regarding claim 6, Palmer et al. further discloses controllers 22, 28 that selectively for second filter 26 for providing output a narrowband signal and first filter 24 for providing wideband signal (column 6, lines 18 - 33).

6. Claim 2, 4, and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wilson et al. (US patent # 6,295,461 B1), further in view of Treadaway et al. (US patent # 6,480,477 B1).

Regarding claim 2, Wilson et al. differs from the instant claimed invention that it does not state first filter 24 is a square-root-raised-cosine filter. However, Treadaway et al. discloses of using a matched filter square-root-raised-cosine for minimizing inter-symbol interference. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to implement Treadaway et al. into Wilson et al. to provide filter 51 being a square-root-raised-cosine filter for minimizing inter-symbol interference.

Regarding claim 4, Wilson et al. further discloses controllers 49, 55 that for selecting first filter 51 outputting a CDMA mode (column 7, lines 28 - 33).

Regarding claim 6, Wilson et al. further discloses controllers 49, 55 that selectively for second filter 53 for providing output a FM signal and first filter 51 for providing a CDMA signal (column 6, lines 18 - 33).

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#### Allowable Subject Matter

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7. Claims 3, 5, 7 - 10, 12 - 15, 17, 21, and 23 - 25 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

8. Claims 26 – 30 are allowed. The following is a statement of reasons for the indication of allowable subject matter:

Regarding to the claimed invention, the prior art of record fails to show or render obvious of a dual mode filter for mobile communication substantial implementing two disparate cellular systems such as GSM and W-CDMA. The same transceiver may be utilized to selectively receive and transmit in either of the two systems. Two cascaded digital decimation filters may substitute for one narrow band digital decimation filter in conventional designs. One of the filters is a multi-band digital decimation filter with N bands and the other of the filters is also the decimation filter used to reject the N-1 bands of the system. The number of taps on each filter may selectively be set to implement either GSM or W-CDMA.

## **Contact Information**

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung X. Nguyen whose telephone number is (703) 305-4892. The examiner can normally be reached on Monday through Friday from 9:00 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Ghayour Mohammad H. can be reached on (703) 306-3034. The fax number for this group is (703) 872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

DXN

September 2, 2003

M OS MOHAMMAD H. GHAYOUR PRIMARY EXAMINER